



Why learning OS?

- Fulfill requirement?
- Operating System training is important
 - <u>http://www.youtube.com/watch?v=-3Rt2_9d7Jg</u>
 - What course is this?
 - http://matt-welsh.blogspot.ca/2010/10/in-defense-of-mark-zuckerberg.html
 - Software companies love OS students
 - Most big software companies have system positions
- Academic research in OS is very influential

<section-header><u<section-header><list-item><list-item><list-item> **Goals of this course** • Understand operating system concepts • How OS works, and more importantly, why? • What are the reasons motivated each design? • What are the reasons motivated each design? • Basis for future learning • Get hands dirty • You will implement part of a real OS • Train your problem solving skills! • Face a problem, solve it, instead of come up with a theory and find applications













What to Expect From Lab Assignments

- Building an OS is difficult
- You will spend a lot of time on the lab assignments
 - The labs give specifications, not implementations
 - Allows for imagination
 - Allows for errors and frustration
 - Lab instructions ask that you design well, before you code
 - Assume that you will do the design/coding outside lab hours
- You will work in groups of 2 for the lab assignments
 - Make sure you know what your partner is implementing
 - Learn to coordinate and be efficient
 - Form your group by January 18th, 5PM



Class Web Site

- Class web site available from instructor's home page
 - http://www.eecg.toronto.edu/~yuan/teaching/ ece344/
 - Provides slides, agenda, grading policy, etc.
 - All information regarding the labs
 - Piazza (See course homepage) used for discussion
- UoT Portal used for
 - Grades
 - Announcement (you should receive emails)







How NotTo pass ECE344

- Do not come to lecture
 - It's nice out, the slides are online, and material in the book anyway
 - TRUTH: Lecture material is the basis for exams
 - It is much more efficient to learn through discussion
- Copy other people's project
 - It is cheating!
 - How can you answer the questions in midterm or final exams?











An example comparing life with/without OS





Benefits to Applications

• Simpler

- no tweaking device registers
- Device independent
 - all disks look the same
- Portable
 - same program runs on Windows95/98/ME/NT/ 2000/XP/Vista/Windows 7/Windows 8
- Worry less about interference from other applications

















